PCT/PTO 2 **2 OCT 2001** ...EY'S DOCKET NUMBER RM PTO-1390 (Modified) REV 11-2000) 112740-294 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR DESIGNATED/ELECTED OFFICE (DO/EO/US) 019826 CONCERNING A FILING UNDER 35 U.S.C. 371 PRIORITY DATE CLAIMEI INTERNATIONAL FILING DATE INTERNATIONAL APPLICATION NO. <u>20 April 1999</u> PCT/DE99/01189 TITLE OF INVENTION SURVEILLANCE METHOD USING A WIRELESS VIDEO TELEPHONE SYSTEM APPLICANT(S) FOR DO/EO/US Gerhard Bock et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include itens (5), (6), (9) and (24) indicated below. The US has been elected by the expiration of 19 months from the priority date (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. \times has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. ∗ □ have not been made; however, the time limit for making such amendments has NOT expired. c. 🗆 have not been made and will not be made. d. 🛛 An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 9. An English language translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). \boxtimes 11. A copy of the International Search Report (PCT/ISA/210). 12. Items 13 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. \boxtimes 13. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. \boxtimes A FIRST preliminary amendment. 15. A SECOND or SUBSEQUENT preliminary amendment. 16. A substitute specification. 17. X) A change of power of attorney and/or address letter. 18. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. 19.

A second copy of the published international application under 35 U.S.C. 154(d)(4).

A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

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Certificate of Mailing by Express Mail

Other items or information:

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IN THE UNITED STATES ELECTED/DESIGNATED OFFICE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE UNDER THE PATENT COOPERATION TREATY-CHAPTER II

5 <u>PRELIMINARY AMENDMENT</u>

APPLICANT:

Gerhard Bock et al.

DOCKET NO: 112740-294

SERIAL NO:

GROUP ART UNIT:

EXAMINER:

INTERNATIONAL APPLICATION NO:

PCT/DE99/01189

10 INTERNATIONAL FILING DATE:

20 April 1999

INVENTION:

SURVEILLANCE METHOD USING A WIRELESS VIDEO

TELEPHONE SYSTEM

Assistant Commissioner for Patents,

15 Washington, D.C. 20231

Sir:

Please amend the above-identified International Application before entry into the National stage before the U.S. Patent and Trademark Office under 35

20 U.S.C. §371 as follows:

In the Specification:

Please replace the Specification of the present application, including the Abstract, with the following Substitute Specification:

SPECIFICATION

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TITLE OF THE INVENTION

SURVEILLANCE METHOD USING A WIRELESS VIDEO TELEPHONE SYSTEM

BACKGROUND OF THE INVENTION

DE 38 27 928 discloses a video telephone apparatus which can be used to carry out a surveillance method of this type. The image recorded by the camera of the video telephone apparatus is checked for changes, with respect to a previously recorded image, or for movements. If a change or a movement which exceeds a predetermined amount is detected in the image supplied by the video camera, then

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an alarm situation is imposed. This evaluation can be carried out by a comparison of successive images, a comparison of a current image with a stored image or else by a computation algorithm which, for example, detects a movement in the running coding algorithm. If the calculated motion vector exceeds a certain threshold value, the alarm is triggered.

The triggering of the alarm causes the connection to be set up to a supervisory or surveillance center to which a preconstructed alarm text or an alarm message can be transmitted. The alarm-triggering image is additionally transmitted. This enables the surveillance center to check whether the alarm was triggered by an intruder, or whether a false alarm is involved; for example, caused by a cat.

It is conceivable to use a wireless video telephone system instead of the video telephone apparatus. Such a system operates, for example, according to the DECT standard (or the Japanese PHS standard), in which a video mobile part is wirelessly connected to a base station.

When a video telephone terminal or a video telephone system is used for a surveillance method, it is possible for the intruder to destroy the alarm-signaling apparatus before a communications link to the central security station has been set up, or at least to disconnect it from the network.

The present invention is, therefore, directed toward specifying a more secure surveillance method.

SUMMARY OF THE INVENTION

The present invention is based on the idea of immediately transmitting the alarm-triggering image sequence or the alarm-triggering image from the mobile apparatus to the base station. This transmission takes place right away, with the result that it is practically impossible for an intruder to destroy the mobile apparatus before the image transmission. The base station then has enough time to set up the connection to the central surveillance station and to transmit the transmitted, buffer-stored image there.

Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Invention.

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DETAILED DESCRIPTION OF THE INVENTION

The present invention is described below using an exemplary embodiment.

By way of example, a cordless telephone system according to the DECT standard is assumed to be known. Such systems and similar systems are described, for example, in Funkschau, Issue 13, Year 97 in the article "Comparison of DECT and PHS". Building on this, the mobile part can be provided with a camera, so that a corresponding video telephone system is present for carrying out wireless video telephony. The base station of the telephone system can be connected to a wireless or corded, analog or digital communications network.

In order to set up a communications link to the communications network, a call number is input on the mobile part, for example. Once the connection has been set up, from the base station, it is possible to carry out the voice and/or image communication to a remote subscriber. Data stored in the mobile part only can be transmitted after the setup of the communications link from the mobile part via the base station to the communications network.

The present invention is based on the immediate transmission of the alarm and of the alarm-triggering image from the mobile part to the base station.

Such a video telephone system is used for a surveillance method; for example, to combat break-ins. It is of secondary importance to the present invention whether the alarm is triggered in the video mobile part or in the base station itself. In one case, the mobile part is continuously connected to the base station. In this case, the recorded images are immediately transmitted to the base station, where an image change or a movement is detected. In another case, this detection is carried out in the mobile part and, if an alarm is imposed, the alarm-triggering image is immediately transmitted to the base station. In both cases, the image or the image sequence is present in the base station before the central surveillance station is dialed from the base station.

If the mobile part is destroyed by an intruder, for example, the transmission of the associated image can no longer be prevented.

In one embodiment of the present invention, the camera of the video mobile part has image recording sensors for the infrared range.

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This enables movement detection or the detection of image changes to be effected even when it is dark.

Although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.

ABSTRACT OF THE DISCLOSURE

A surveillance method with a wireless video telephone system, in which a base station is connected to a communications network, in which a video mobile part with a camera is used for surveillance, a currently recorded image being checked for changes and, in the event of a predetermined difference, an alarm being triggered and a surveillance center being dialed, and in which the alarm-triggering image is immediately transmitted from the mobile part to the base station where it is stored at least until being output to the communications network.

In the claims:

On page 5, cancel line 1, and substitute the following left-hand justified heading therefor:

CLAIMS

Please cancel claims 1-4, without prejudice, and substitute the following claims therefor:

5. A surveillance method using a wireless video telephone system, the method comprising the steps of:

connecting a base station to a communication network; using a video mobile part with a camera for surveillance; checking a currently recorded image for changes;

triggering an alarm and dialing a surveillance center in the event of a predetermined difference in the currently recorded image;

transmitting immediately an alarm-triggering image from the mobile part to the base station; and

storing the alarm-triggering image in the base station at least until being output to the communications network.

6. A surveillance method using a wireless video telephone system as claimed in claim 5, wherein the currently recorded image is checked in the video mobile part.

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7. A surveillance method using a wireless video telephone system as claimed in claim 5, wherein the currently recorded image is checked in the base station.

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8. A surveillance method using a wireless video telephone system as claimed in claim 5, wherein the camera of the video mobile part includes image recording sensors for an infrared range.

REMARKS

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The present amendment makes editorial changes and corrects typographical errors in the specification, which includes the Abstract, in order to conform the specification to the requirements of United States Patent Practice. No new matter is added thereby. Attached hereto is a marked-up version of the changes made to the specification by the present amendment. The attached page is captioned "Version With Markings To Show Changes Made".

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In addition, the present amendment cancels original claims 1-4 in favor of new claims 5-8. Claims 5-8 have been presented solely because the revisions by crossing out underlining which would have been necessary in claims 1-4 in order to present those claims in accordance with preferred United States Patent Practice would have been too extensive, and thus would have been too burdensome. The present amendment is intended for clarification purposes only and not for substantial reasons related to patentability pursuant to 35 U.S.C. §§103, 102, 103 or 112. Indeed, the cancellation of claims 1-4 does not constitute an intent on the part of the Applicants to surrender any of the subject matter of claims 1-4.

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Early consideration on the merits is respectfully requested.

Respectfully submitted,

(Reg. No. 39,056)

William E. Vaughan Bell, Boyd & Lloy LLC P.O. Box 1135

Chicago, Illinois 60690-1135

(312) 807-4292

Attorneys for Applicants

<u>VERSIONS WITH MARKINGS TO SHOW CHANGES MADE</u> <u>In The Specification:</u>

The Specification of the present application, including the Abstract, has been amended as follows:

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SPECIFICATION TITLE OF THE INVENTION

Description

Intruder detection with a video telephone

SURVEILLANCE METHOD USING A WIRELESS VIDEO TELEPHONE

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SYSTEM

BACKGROUND OF THE INVENTION

The invention relates to a surveillance method with a video telephone system.

DE 38 27 928 discloses a video telephone apparatus which can be used to carry out a surveillance method of this type. The image recorded by the camera of the video telephone apparatus is checked for changes, with respect to a previously recorded image, or for movements. If a change or a movement which exceeds a predetermined amount is detected in the image supplied by the video camera, then an alarm situation is imposed. This evaluation can be carried out by a comparison of successive images, or by the a comparison of a current image with a stored image or else by a computation algorithm which, for example, detects a movement in the running coding algorithm. If the calculated motion vector exceeds a certain threshold value, the alarm is triggered.

The triggering of the alarm causes the connection to be set up to a supervisory or surveillance center to which a preconstructed alarm text or an alarm message can be transmitted. The alarm-triggering image is additionally transmitted. This enables the surveillance center to check whether the alarm was triggered by an intruder, or whether a false alarm is involved; for example, caused by a cat.

It is conceivable to use a wireless video telephone system instead of the video telephone apparatus. Such a system operates, for example, according to the DECT standard (or the Japanese PHS standard), in which a so-called video

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mobile part is wirelessly connected to a base station.

When a video telephone terminal or a video telephone system is used for a surveillance method, it is possible for the intruder to destroy the alarm-signaling apparatus before a communications link to the central security station has been set up, or at least to disconnect it from the network.

The <u>present</u> invention is, <u>therefore</u>, <u>directed toward</u> based on the object of specifying a <u>more</u> secure surveillance method.

This object is achieved according to the invention by means of the features specified in patent claim 1.

SUMMARY OF THE INVENTION

The <u>present</u> invention is based on the idea of immediately transmitting the alarm-triggering image sequence or the alarm-triggering image from the mobile apparatus to the base station. This transmission takes place <u>straight right</u> away, with the result that it is practically impossible for an intruder to destroy the mobile apparatus before the image transmission. The base station then has enough time to set up the connection to the central surveillance station and to transmit the transmitted, buffer-stored image there.

Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Invention.

DETAILED DESCRIPTION OF THE INVENTION

The present invention is described below using an exemplary embodiment.

By way of example, a cordless telephone system according to the DECT standard is assumed to be known. Such systems and similar systems are described, for example, in Funkschau, Issue 13, Year 97 in the article "Comparison of DECT and PHS". Building on this, the mobile part can be provided with a camera, so that a corresponding video telephone system is present for carrying out wireless video telephony. The base station of the telephone system can be connected to a wireless or corded, analog or digital communications network.

In order to set up a communications link to said the communications network, a call number is input on the mobile part, for example. Once the connection has been set up, from the base station, it is possible to carry out the

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voice and/or image communication to a remote subscriber. Data stored in the mobile part ean also only can be transmitted after the setup of the communications link from the mobile part via the base station to the communications network.

The <u>present</u> invention is based on the immediate transmission of the alarm and of the alarm-triggering image from the mobile part to the base station.

Such a video telephone system is used for a surveillance method; for example, to combat break-ins. It is of secondary importance to the <u>present</u> invention whether the alarm is triggered in the video mobile part or in the base station itself. In one case, the mobile part is continuously connected to the base station. In this case, the recorded images are immediately transmitted to the base station, where an image change or a movement is detected. In another case, this detection is carried out in the mobile part, and, if an alarm is imposed, the alarm-triggering image is immediately transmitted to the base station. In both cases, the image or the image sequence is present in the base station before the central surveillance station is dialed from the base station.

If the mobile part is destroyed by an intruder, for example, the transmission of the associated image can no longer be prevented.

In one <u>development embodiment</u> of the <u>present</u> invention, the camera of the video mobile part has image recording sensors for the infrared range.

This enables movement detection or the detection of image changes to be effected even when it is dark.

Although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.

Abstract

ABSTRACT OF THE DISCLOSURE

Intruder-detection with a video telephone

The invention relates to a A surveillance method with a wireless video telephone system, in which a base station is connected to a communications network, in which a video mobile part with a camera is used for surveillance, a currently recorded image being checked for changes and, in the event of a predetermined difference, an alarm being triggered and a surveillance center being dialed, and in which the alarm-triggering image is immediately transmitted from the mobile part to the base station, where it is stored at least until being output to the communications network.

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Description

Intruder detection with a video telephone

5 The invention relates to a surveillance method with a video telephone system.

DE 38 27 928 discloses a video telephone apparatus which can be used to carry out a surveillance method of this type. The image recorded by the camera of the video telephone apparatus is checked for changes, with to a previously recorded image, movements. If a change or a movement which exceeds a predetermined amount is detected in the image supplied by the video camera, then an alarm situation imposed. This evaluation can be carried out comparison of successive images or by the comparison of a current image with a stored image or else by a computation algorithm which, for example, detects a movement in the running coding algorithm. calculated motion vector exceeds a certain threshold value, the alarm is triggered.

The triggering of the alarm causes the connection to be set up to a supervisory or surveillance center to which a preconstructed alarm text or an alarm message can be transmitted. The alarm-triggering image is additionally transmitted. This enables the surveillance center to check whether the alarm was triggered by an intruder, or whether a false alarm is involved, for example caused by a cat.

It is conceivable to use a wireless video telephone system instead of the video telephone apparatus. Such a system operates, for example, according to the DECT standard (or the Japanese PHS standard), in which a so-called video

mobile part is wirelessly connected to a base station.

When a video telephone terminal or a video telephone system is used for a surveillance method, it is possible for the intruder to destroy the alarmsignaling apparatus before a communications link to the central security station has been set up, or at least to disconnect it from the network.

10 The invention is based on the object of specifying a secure surveillance method.

This object is achieved according to the invention by means of the features specified in patent claim 1.

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The invention is based on the idea of immediately transmitting the alarm-triggering image sequence or the alarm-triggering image from the mobile apparatus to the base station. This transmission takes place straight away, with the result that it is practically impossible for an intruder to destroy the mobile apparatus before the image transmission. The base station then has enough time to set up the connection to the central surveillance station and to transmit the transmitted, buffer-stored image there.

The invention is described below using an exemplary embodiment.

30 By way of example, a cordless telephone system according to the DECT standard is assumed to be known. Such systems and similar systems are described for example in Funkschau, Issue 13, Year 97 in the article "Comparison of DECT and PHS". Building on this, the mobile part can be provided with a camera, so that a corresponding video telephone system is present for carrying out wireless video telephony. The base station of the telephone system can be connected to a

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wireless or corded, analog or digital communications network.

In order to set up a communications link to said communications network, a call number is input on the mobile part, for example. Once the connection has been set up, from the base station, it is possible to carry out the voice and/or image communication to a remote subscriber. Data stored in the mobile part can also transmitted after the setup of the only be communications link from the mobile part via the base station to the communications network.

The invention is based on the immediate transmission of the alarm and of the alarm-triggering image from the mobile part to the base station.

Such video telephone system is used surveillance method, for example to combat break-ins. 20 It is of secondary importance to the invention whether the alarm is triggered in the video mobile part or in the base station itself. In one case, the mobile part is continuously connected to the base station. In this case, the recorded images are immediately transmitted 25 to the base station, where an image change or a movement is detected. In another case, this detection is carried out in the mobile part, and if an alarm is imposed, the alarm-triggering image is transmitted to the base station. In both cases, the 30 image or the image sequence is present in the base station before the central surveillance station is dialed from the base station.

If the mobile part is destroyed by an intruder, for example, the transmission of the associated image can no longer be prevented.

In one development of the invention, the camera of the video mobile part has image recording sensors for the infrared range.

This enables movement detection or the detection of image changes to be effected even when it is dark.

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Patent claims

1. A surveillance method with a wireless video telephone system,

in which a video mobile part with a camera is used

in which a base station is connected to a communications network,

for surveillance, a currently recorded image being checked for changes and, in the event of a predetermined difference, an alarm being triggered and a surveillance center being dialed, and in which the alarm-triggering image is immediately transmitted from the mobile part to the base station, where it is stored at least until being output to the communications network.

- 2. The surveillance method as claimed in claim 1, in which the currently recorded image is checked in the video mobile part.
- 3. The surveillance method as claimed in claim 1, in which the currently recorded image is checked in the base station.
- 25 4. The surveillance method as claimed in one of claims 1 to 3, in which the camera of the video mobile part has image recording sensors for the infrared range.

Declaration and Power of Attorney For Patent Application Erklärung Für Patentanmeldungen Mit Vollmacht German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:	As a below named inventor, I hereby declare that:
dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,	My residence, post office address and citizenship are as stated below next to my name,
dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and join inventor (if plural names are listed below) of the subject matter which is claimed and for which a paten is sought on the invention entitled
Einbruchserkennung mit einem Bildtelefon	Intruder detection system with a video telephone
deren Beschreibung	the specification of which
(zutreffendes ankreuzen) ☐ hier beigefügt ist. ☑ am20.04.1999_als PCT internationale Anmeldung PCT Anmeldungsnummer	(check one) ☐ is attached hereto. ☑ was filed on20.04.1999 as PCT international application PCT Application No PCT/DE99/01189 and was amended on (if applicable)
Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeän- dert wurde.	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.
Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.	I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).
Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.	I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

		German Langua	ge Declaration		
Prior foreign ap Priorität beans				<u>Priorit</u>	ty Claimed
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